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Thr	Gly	Lys 15	·Met	Pro	Ile	Leu	Ser 20	Tyr	Trp	Pro	Tyr	Gly 25	Cys	His	Cys .
Gly	Leu 30	Gly	Gly	Arg	Gly	Gln 35	Pro	Lys	Asp	Ala	Thr 40	Asp	Trp	Сув	Cys
Gln 45	Thr	His	Asp	Cys	Cys 50	туг	Asp	His	Leu	L ув 55	Thr	Gln	Gly	Сув	Gly 60
Ile	Туг	Lys	Asp	Tyr 65	Tyr	Arg	туг	Asn	Phe 70	Ser	Gln	Gly	Asn	Ile 75	His
Cys	Ser	Asp	Lys 80	Gly	Ser	Trp	Сув	Glu 85	Gln	Gln	Leu	Сув	Ala 90	Сув	Asp
Lys	Glu	Val 95	Ala	Phe	Сув	Leu	Lys 100	Arg	Asn	Leu	Asp	Thr 105	Tyr	Gln	ŗ
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878

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result		Query				
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1	852	100.0	145	4	US-09-856-486-27	Sequence 27, Appl
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3	500.5	58.7	116	4	US-10-140-002-534	Sequence 534, App
4	401.5	47.1	146	3	US-08-966-317-4	Sequence 4, Appli
5	401.5	47.1	146	3	US-09-489-770-4	Sequence 4, Appli
6	400.5	47.0	146	2	US-08-888-497-35	Sequence 35, Appl
7	400.5	47.0	146	3	US-09-362-230-35	Sequence 35, Appl
8	400.5	47.0	146	5	PCT-US94-07926-35	Sequence 35, Appl
9	395.5	46.4	144	1	US-08-186-895-10	Sequence 10, Appl
10	395.5	46.4	144	2	US-08-888-497-37	Sequence 37, Appl
11	395.5	46.4	144	3	US-09-362-230-37	Sequence 37, Appl
12	395.5	46.4	144	5	PCT-US94-07926-37	Sequence 37, Appl
13	371.5	43.6	146	3	US-08-966-317-3	Sequence 3, Appli

Database : PIR_79:*
 1: pir1:*
 2: pir2:*
 3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		€					
Result		Query					
No.	Score	Match	Length	DB	ID	Description	
1	401.5	47.1	146	 2	A35493	phospholipase A2 (
2	399.5	46.9	146	2	A33394	phospholipase A2 (
3	395.5	46.4	144	1	PSHUYF	phospholipase A2 (
4	389.5	45.7	146	2	JU0283	phospholipase A2 (
5	389	45.7	145	2	I48093	phospholipase A2 (
6	365.5	42.9	146	2	I48342	phospholipase A2 (
7	347	40.7	138	2	A49959	phospholipase A2 (
8	335.5	39.4	138	1	I51381	phospholipase A2 (
9	335.5	39.4	138	1	PSRSBT	phospholipase A2 (
10	332	39.0	125	2	JX0052	phospholipase A2 (
11	331.5	38.9	138	1	PSRSB2	phospholipase A2 (
12	328.5	38.6	138	2	JC1342	phospholipase A2 (
13	320.5	37.6	122	2	S13900	phospholipase A2 (
14	319.5	37.5	137	2	S68429	myotoxin precursor	
15	316.5	37.1	122	1	PSTVXF	phospholipase A2 (
16	314.5	36.9	138	2	S10992	ammodytin L precur	

Database :

UniProt 02:*

1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		•				
Result		Query				
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1	846	99.3	145	1	PA2D_HUMAN	Q9unk4 homo sapien
2	624.5	73.3	144	1	PA2D_MOUSE	Q9wvf6 mus musculu
3	500.5	58.7	116	2	Q6UWX0	Q6uwx0 homo sapien
4	500.5	58.7	116	2	AAQ88969	Aaq88969 homo sapi
5	400.5	47.0	146	2	Q91Y34	Q91y34 rattus norv
6	399.5	46.9	146	1	PA2A RAT	P14423 rattus norv
7	395.5	46.4	144	1	PA2A HUMAN	P14555 homo sapien
8	395.5	46.4	144	2	CAG33146	Cag33146 homo sapi
9	393.5	46.2	144	2	Q6DN24	Q6dn24 homo sapien

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                                          145 AA.
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ID
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     28-FEB-2003 (Rel. 41, Last sequence update)
DT
     01-OCT-2004 (Rel. 45, Last annotation update)
DT
     Group IID secretory phospholipase A2 precursor (EC 3.1.1.4)
DE
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DΕ
DE
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RA
     Ishizaki J., Suzuki N., Higashino K.-I., Yokota Y., Ono T.,
RA
     Kawamoto K., Fujii N., Arita H., Hanasaki K.;
RT
     "Cloning and characterization of novel mouse and human secretory
     phospholipase A2s.";
RT
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     Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT
     "Generation and initial analysis of more than 15,000 full-length human
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RT
    and mouse cDNA sequences.";
    Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RL
CC
    -!- FUNCTION: PA2 catalyzes the calcium-dependent hydrolysis of the 2-
        acyl groups in 3-sn-phosphoglycerides. L-alpha-1-palmitoy1-2-
CC
CC
        linolecyl phosphatidylethanolamine is more efficiently hydrolyzed
CC
        than the other phospholipids examined.
CC
    -!- CATALYTIC ACTIVITY: Phosphatidylcholine + H(2)0 = 1-
CC
        acylqlycerophosphocholine + a carboxylate.
CC
    -!- COFACTOR: Binds 1 calcium ion per subunit.
    -!- SUBCELLULAR LOCATION: Secreted (Potential).
CC
CC
    -!- TISSUE SPECIFICITY: Broadly expressed.
CC
    -!- MISCELLANEOUS: Maximally active at neutral to alkaline pH and with
CC
        2 mM Ca(2+).
CC
    -!- SIMILARITY: Belongs to the phospholipase A2 family.
CC
    ______
    This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC
    between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC
    the European Bioinformatics Institute. There are no restrictions on
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    entities requires a license agreement (See http://www.isb-sib.ch/announce/
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    or send an email to license@isb-sib.ch).
CC
CC
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    EMBL; AF188625; AAF09020.1; -.
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    GO; GO:0006644; P:phospholipid metabolism; TAS.
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                       112
                                 By similarity.
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FT
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FT
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FT
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FT
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FT
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FT
    METAL
                 49
                        49
                                 Calcium (via carbonyl oxygen) (By
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FT			similarity).
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· •			
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D.L.	1		
Db	I MELALLCGLV	VMAGVIPI	QGGILNLNKMVKQVTGKMPILSYWPYGCHCGLGGRGQPKDAT 60
0., 6	1 DWCCOTUDCC	יעחעו עייטרעי	CGIYKDYYRYNFSOGNIHCSDKGSWCEOOLCACDKEVAFCLK 120
Qy 6	1 DMCCOINDCC	. IIIIIIIIIIIII	
Db 6		וווווווווו	
00	1 DWCCQIMDCC	.IDDINITQG	CS11RD11R1NFSQGN1HCSDRG5WCEQQDCACDREVAFCDR 120
Qy 12	1 RNLDTYOKRI	DEVMDDHC	PCOTPCC 145
27 12			
Db 12	1 RNLDTYOKRI		111111

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Database : GenEmbl:* 1: gb_ba:* 2: gb_htg:* 3: gb_in:* 4: gb_om:* 5: gb_ov:* gb_pat:* 7: gb_ph:* 8: gb_pl:* 9: gb_pr:* 10: gb_ro:* 11: gb_sts:* 12: gb_sy:* 13: gb_un:* 14: gb_vi:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

			₹				
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	3	832	94.8	2747	9	BC025706	BC025706 Homo sapi
	4	831	94.6	1938	9	AF188625	AF188625 Homo sapi
С	5	524.6	59.7	98743	9	AL158172	AL158172 Human DNA
	6	296	33.7	1233	6	E37214	E37214 Mouse secre
	7	296	33.7	1233	10	AF112983	AF112983 Mus muscu
	8	296	33.7	1975	10	AF169407	AF169407 Mus muscu
	9	296	33.7	2166	10	AF169408	AF169408 Mus muscu
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	11	284.2	32.4	496	6	AX697309	AX697309 Sequence

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                                                      linear
                                                               PRI 30-AUG-1999
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           complete cds.
           AF112982
ACCESSION
           AF112982.1 GI:5771419
VERSION
KEYWORDS
SOURCE
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 ORGANISM
           Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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            Ishizaki, J., Suzuki, N., Higashino, K., Yokota, Y., Ono, T.,
 AUTHORS
            Kawamoto, K., Fujii, N., Arita, H. and Hanasaki, K.
 TITLE
            Cloning and characterization of novel mouse and human secretory
           phospholipase A(2)s
           J. Biol. Chem. 274 (35), 24973-24979 (1999)
 JOURNAL
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           99386983
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              (bases 1 to 878)
 AUTHORS
            Ishizaki, J., Suzuki, N., Higashino, K. and Hanasaki, K.
 TITLE
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  JOURNAL
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ORIGIN
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 Best Local Similarity
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 Matches 878; Conservative
                                0; Mismatches
                                                  0; Indels
                                                                    Gaps
Qу
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              Db
            1 TCTGCCTCCACTGCTCTGTGCTGGGATCATGGAACTTGCACTGCTGTGTGGGCTGGTGGT 60
Qу
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Qy	241	TGACCACCTGAAGACCCAGGGGTGCGGCATCTACAAGGACTATTACAGATACAACTTTTC	300
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Qy	301	CCAGGGGAACATCCACTGCTCTGACAAGGGAAGCTGGTGTGAGCAGCAGCTGTGTGCCTG	360
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Qy	361	TGACAAGGAGGTGGCCTTCTGCCTGAAGCGCAACCTGGACACCTACCAGAAGCGACTGCG	420
Db	361	TGACAAGGAGGTGGCCTTCTGCCTGAAGCGCAACCTGGACACCTACCAGAAGCGACTGCG	420
Qy	421	TTTCTACTGGCGGCCCCACTGCCGGGGGCAGACCCCTGGGTGCTAGAAGCCCACACCCTC	480
Db	421	TTTCTACTGGCGGCCCCACTGCCGGGGCAGACCCCTGGGTGCTAGAAGCCCACACCCTC	480
Qy	481	TACCCTGTTCCTCAGCATGGAGCTCTGGCATCCCCACCTCAGTATCTAACCTGAACCAGC	540
Db	481	TACCCTGTTCCTCAGCATGGAGCTCTGGCATCCCCACCTCAGTATCTAACCTGAACCAGC	540
Qy	541	CTGGCTTTTCAAACACTCCGGGGGGAGGTAGTCCCAGCCTCCCCGGAACCCTCTACCAA	600
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Qy	661	TGAGGGTGGATGGGAATCTTGGGAGAAGCCCAAGCAAGGAGGCCATCAGAGGTGGTGTTT	720
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Qy	781	GTCCTTCCTCACCCCTCCAATATAGTCTCGGAGCTGCAACCGCAGCAGCCACTATAAAG	840
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

			₽				
Resu	lt		Query				
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	2	843	96.0	2789	12	ADQ22737	Adq22737 Human sof
	3	842	95.9	1939	12	ADP18657	Adp18657 Human TAT
	4	832	94.8	2747	10	ACC72857	Acc72857 Human can
	5	831	94.6	1938	12	ADQ18176	Adq18176 Human sof
	6	830	94.5	854	4	AAS14884	Aas14884 Human cDN
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	8	821.4	93.6	1927	4	AAH99768	Aah99768 Human pro
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	10	592	67.4	592	3	AAA53269	Aaa53269 Human pho
С	11	518.2	59.0	577	12	ACH76501	Ach76501 Human gen
	12	296	33.7	1233	3	AAA60866	Aaa60866 Mouse sec
	13	296	33.7	1233	3	AAA72076	Aaa72076 cDNA enco
	14	284.2	32.4	496	3	AAA77684	Aaa77684 Human PRO

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		- 8€				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
		- -				
1	878	100.0	878	4	US-09-856-486-26	Sequence 26, Appl
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3	284.2	32.4	496	4	US-10-140-002-533	Sequence 533, App
4	268.8	30.6	501	4	US-09-856-486-1	Sequence 1, Appli
5	119.6	13.6	1016	4	US-09-220-132-17	Sequence 17, Appl
6	118	13.4	1014	2	US-08-888-497-31	Sequence 31, Appl
7	118	13.4	1014	3	US-09-362-230-31	Sequence 31, Appl
8	118	13.4	1014	5	PCT-US94-07926-31	Sequence 31, Appl
9	112.4	12.8	479	1	US-08-186-895-9	Sequence 9, Appli
10	110.8	12.6	854	4	US-09-023-655-1207	Sequence 1207, Ap
11	101.8	11.6	375	4	US-09-740-569-1	Sequence 1, Appli
12	101.8	11.6	375	4	US-10-255-576-1	Sequence 1, Appli
13	98.4	11.2	1828	2	US-08-888-497-29	Sequence 29, Appl
14	98.4	11.2	1828	3	US-09-362-230-29	Sequence 29, Appl

Database : EST:*
 1: gb_est1:*
 2: gb_est2:*
 3: gb_htc:*
 4: gb_est3:*
 5: gb_est4:*
 6: gb_est5:*
 7: gb_est6:*
 8: gb_gss1:*
 9: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

			₹				
Res	ult		Query				
	No.	Score	Match	Length	DB	ID	Description
	1	664.6	75.7	726	6	CD691591	CD691591 EST8114 h
	2	600.2	68.4	680	4	BI836812	BI836812 603084703
	3	436.4	49.7	438	9	AY417051	AY417051 Homo sapi
	4	436.4	49.7	438	9	AY417052	AY417052 Pan trogl
	5	427.2	48.7	463	4	BM153087	BM153087 TCBAP1Q13
	6	342.4	39.0	631	9	AG079586	AG079586 Pan trogl
C	7	323	36.8	461	6	CB481980	CB481980 jns85_C09
	8	308.6	35.1	424	6	CD687559	CD687559 EST4080 h
	9	296.6	33.8	623	6	BY752231	BY752231 BY752231
	10	296	33.7	770	7	CK478998	CK478998 AGENCOURT
	11	296	33.7	1582	3	AK018005	AK018005 Mus muscu
	12	291	33.1	794	7	CK476867	CK476867 AGENCOURT
	13	289.8	33.0	438	9	AY417053	AY417053 Mus muscu
	14	268.8	30.6	460	1	AI430241	AI430241 vv49h02.y
	15	268.8	30.6	501	1	AA762051	AA762051 vv49h02.r

Database : A_Geneseq_23Sep04:*
 1: geneseqp1980s:*
 2: geneseqp1990s:*
 3: geneseqp2000s:*
 4: geneseqp2001s:*
 5: geneseqp2002s:*
 6: geneseqp2003as:*
 7: geneseqp2003bs:*

8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		₹				
Result		Query	•			
No.	Score	Match	Length	DB	ID	Description
1	852	100.0	145	3	AAB03627	Aab03627 Human pho
2	852	100.0	145	3	AAB12537	Aab12537 Human sec
3	852	100.0	145	4	AAM24100	Aam24100 Human EST
4	852	100.0	145	4	AAE11924	Aae11924 Human CG9
5	852	100.0	145	8	ADP18678	Adp18678 Human pro
6	852	100.0	150	4	AAM25827	Aam25827 Human pro
7	846	99.3	145	4	AAU09096	Aau09096 Novel hum
8	846	99.3	145	6	ABR44234	Abr44234 Human sec
9	846	99.3	145	6	ABR58706	Abr58706 Human can
10	846	99.3	145	6	ABU63124	Abu63124 Human gro
11	846	99.3	145	8	ADQ18177	Adq18177 Human sof
12	624.5	73.3	144	3	AAB12536	Aab12536 Mouse sec
13	624.5	73.3	144	3	AAB11994	Aab11994 Mouse sec
14	500.5	58.7	116	3	AAB24434	Aab24434 Human PRO
15	500.5	58.7	116	3	AAY99450	Aay99450 Human PRO
16	500.5	58.7	116	4	AAB66199	Aab66199 Protein o